

FIG. 2 : CENTER ALIGNMENT OF
DQS SIGNAL AND DATA SIGNAL

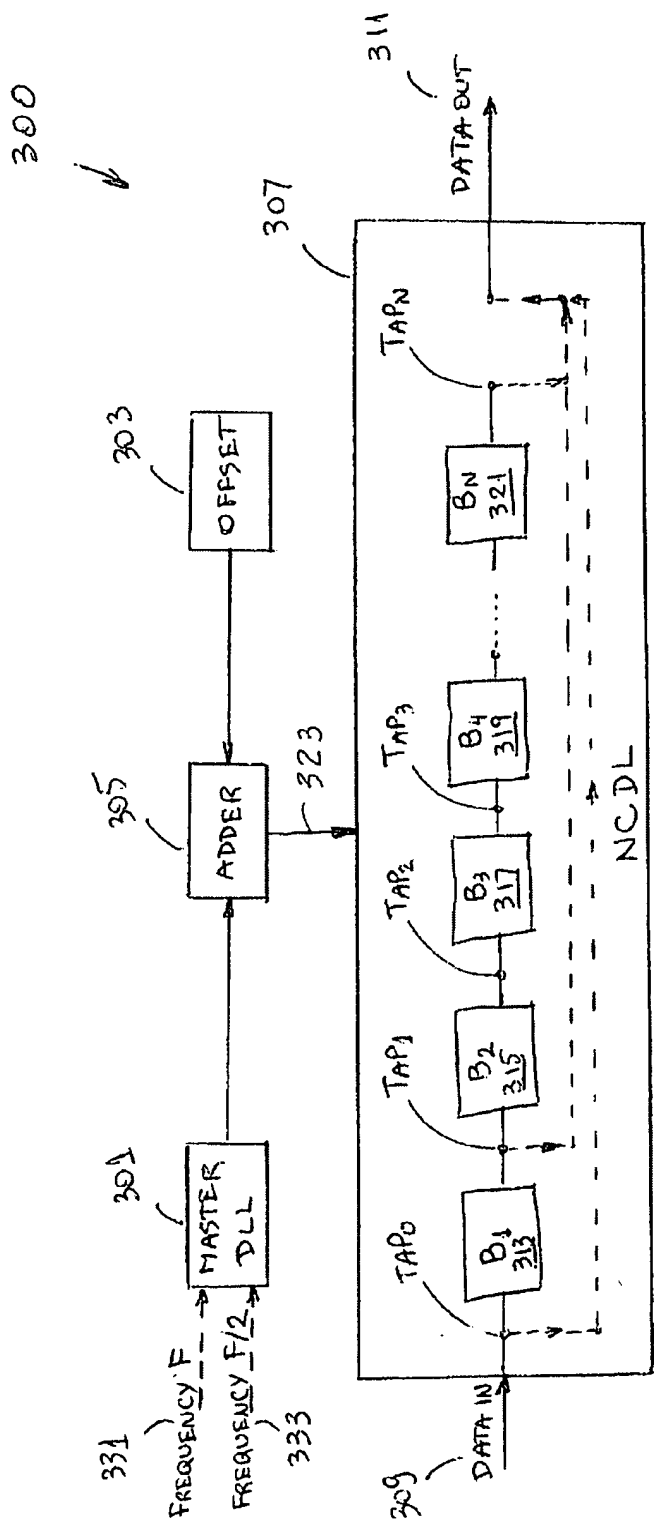


FIG. 3 : HARDWARE FOR SIGNAL DELAYING
USING ANUMERICALLY CONTROLLED
DELAY LINE

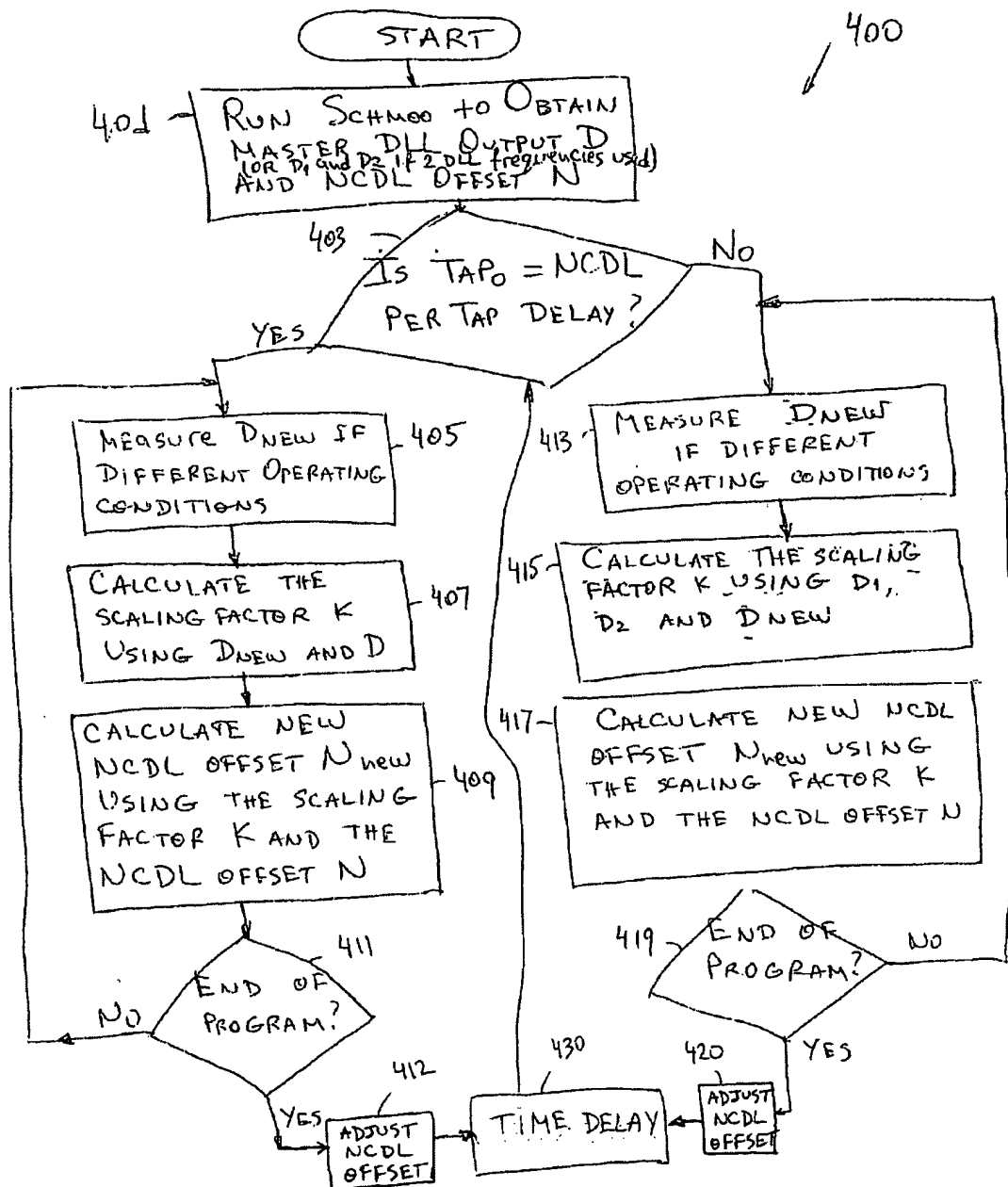


FIG. 4. METHOD FOR UPDATING AN NCDL OFFSET USING A SCALING FACTOR

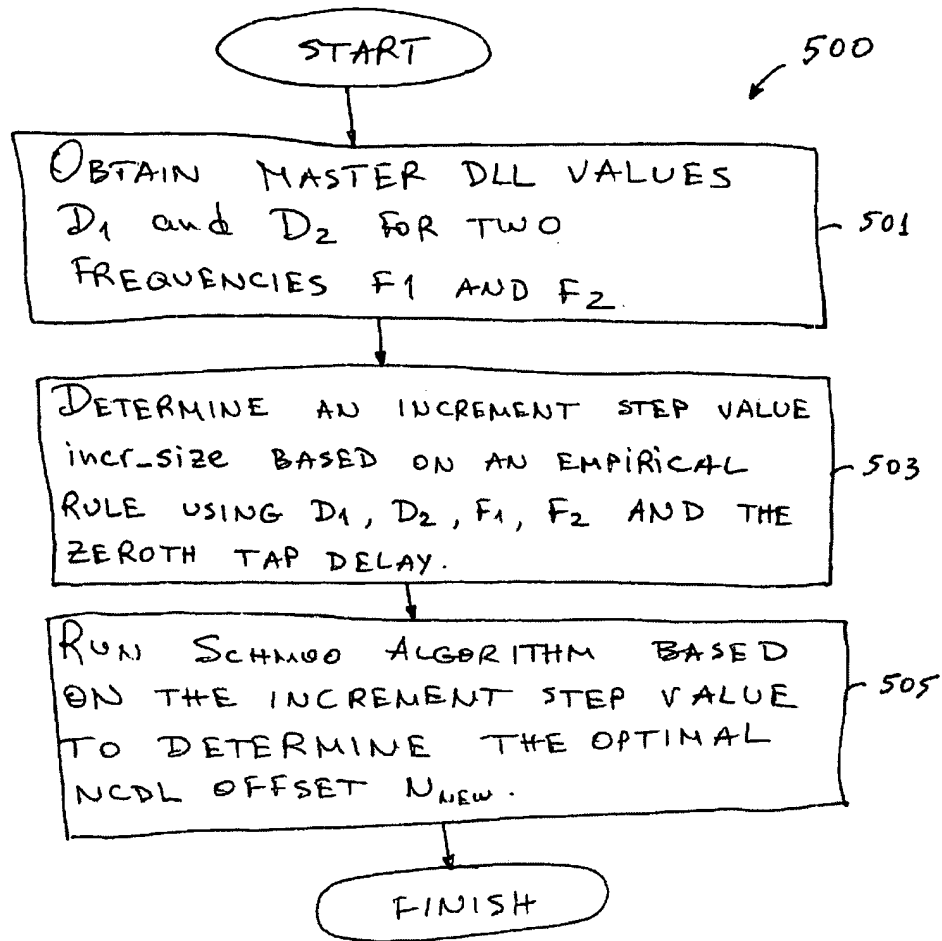


FIG. 5: METHOD FOR OPTIMIZING THE SCHMOOR RUNTIME ALGORITHM BY DETERMINING AN INCREMENT STEP VALUE.

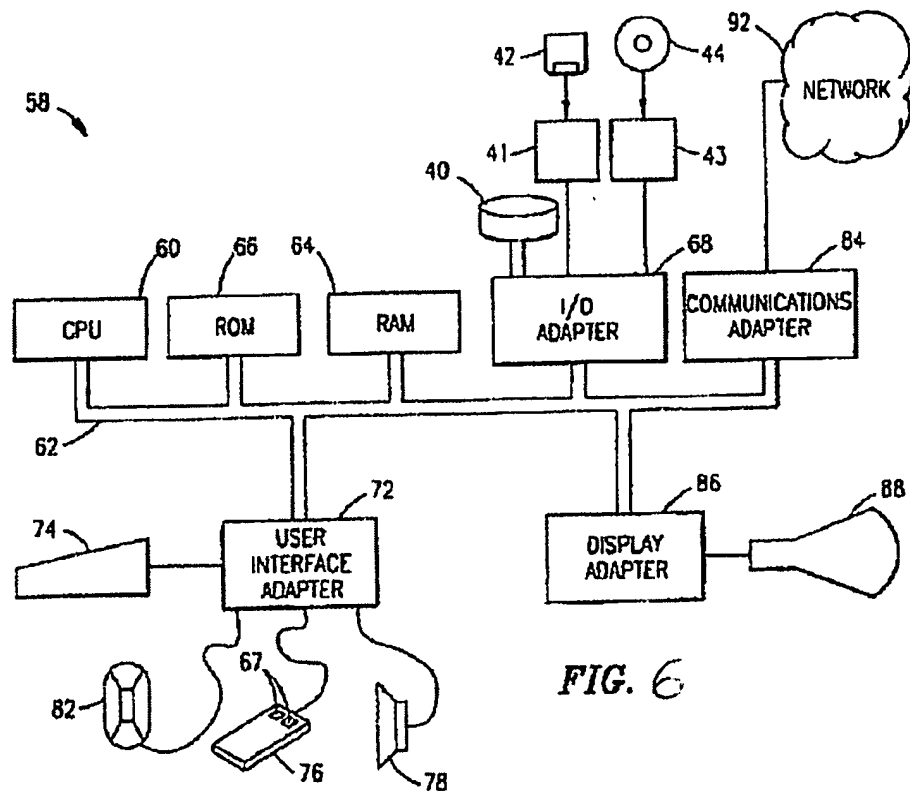


FIG. 6